



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF:

TAKAYUKI YAMAMOTO, ET AL.

: EXAMINER: JACKSON, M.R.

SERIAL NO. 10/085,081

FILED: MARCH 1, 2002

: GROUP ART UNIT: 1773

FOR: METAL SHEET WITH
ANTICORROSIVE COATING

DECLARATION UNDER 37 C.F.R. § 1.132

ASSISTANT COMMISSIONER FOR PATENTS
ALEXANDRIA, VA 22313-1450

SIR:

I, Hiroo Shige, a citizen of Japan, hereby declare and state that:

1. I have a Master's degree in Engineering, which was conferred upon me in 1993 by Kyoto Institute of Technology located in Kyoto prefecture, Japan.

2. I have been employed by Kabushiki Kaisha Kobe Seiko Sho since 1993 and I have a total of 10 years of work and research experience in the field of surface processing and corrosion of metal sheet.

3. Corrosion experiments were carried out by me or under my direct supervision and control using the JASO-M609 test described in the specification pages 7-8. The experiments studied the corrosion resistance provided to cold rolled steel sheet by various anticorrosive paints containing zinc powder and metal salt rust inhibitor.

4. The attached Fig. E shows the maximum corrosion depth after 90 cycles as a function of the average particle size of metal salt rust inhibitor.

"Data 1" corresponds to Sample No. 4 in Table 1 in the specification at page 10.

"Data 2" corresponds to Sample No. 7 in Table 1 in the specification at page 10.

"Data 3" corresponds to Comparative Sample No. (3) in Table 1 in the specification at page 10.

"Data 4" was obtained under the same conditions as "Data 1" except for the average particle size.

5. Fig. E shows the ranges of "A", "B" and "C" used in Table 1 in the specification at page 10.

6. Fig. E shows that a significant reduction in corrosion is provided by a paint containing zinc powder when the paint also contains a metal salt rust inhibitor having an average particle diameter not larger than $1.0 \mu\text{m}$.

7. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

8. Further declarant saith not.

Date: April 7, 2005 H. Shige
Hiroo SHIGE

✓ Attachment: Fig. E

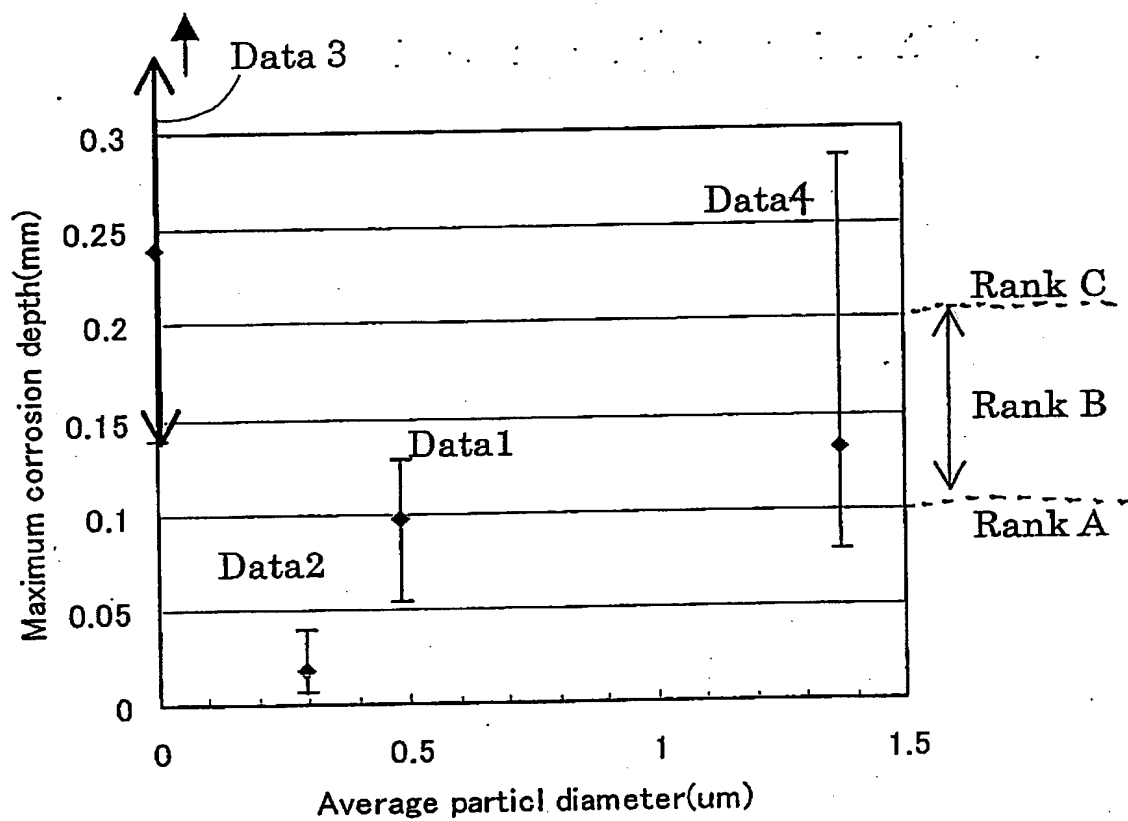
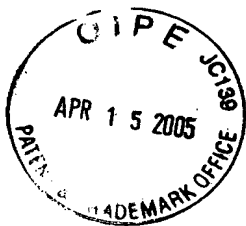


Fig. E

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